



- NOTE:**
1. FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES, SEE DWG. E-1.
 2. LEAVE 3' OF COILED CABLE (TAG & TAPE CONDUCTOR ENDS) AT EXISTING SPEAKER. DISCONNECTION OF EXISTING SPEAKER CIRCUIT WIRING AND FINAL CONNECTION TO EXISTING SPEAKER WILL BE MADE BY OTHERS.
 3. DISCONNECTION AND REMOVAL OF EXISTING TENANT AMPLIFIERS AND ASSOCIATED WIRING UP TO THE LAST SPEAKER, AND CONNECTION OF E.O.L. RESISTOR AT THE LAST SPEAKER WILL BE MADE BY OTHERS AFTER INSTALLED SPEAKERS ARE TESTED AND OPERATIONAL.
 4. REMOVE OLD SPEAKERS AS DIRECTED BY THE ENGINEER AND PROVIDE PATCHING AS PER INDICATED PATCHING DETAIL NUMBER NEXT TO THE OLD SPEAKER. DISCONNECTION OF OLD SPEAKERS WILL BE MADE BY OTHERS.
 5. FOR REMOVAL AND PATCHING PLAN DETAILS (P-1, P-2, P-3 & P-4), SEE DWG. A-1.

SPEAKER CIRCUIT/LOADING TABLE

SPEAKER TAP/dB SETTING	Watts	1/8	1/4	1/2	1	2	4	TOTAL POWER (Watts)	CIRCUIT LENGTH (ft.)
QUANTITY OF SPEAKERS PER CIRCUIT	SPK-A	3	6	2	—	—	—	5.375	385
	SPK-B	—	1	6	1	—	—	4.250	405
	SPK-C	—	—	5	—	—	—	2.500	450
	SPK-D	1	2	5	1	—	—	4.125	420
GRAND TOTAL								16.250	1660

THE PORT AUTHORITY OF NY & NJ

Peter K. Lweeney
ENGINEERING PROGRAM MANAGER

J. Bueland
CHIEF ELECTRICAL ENGINEER

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 7-15-97 *[Signature]* SPEC. WRITER
DATE 7-18-97 *[Signature]* ENGINEER OF DESIGN

No. Date Revision Approved

Engineering Department
Design Divisions

The World Trade Center

Title

**FIRE ALARM SYSTEM
DEVICE UPGRADE
PHASE III**

ELECTRICAL

**1 WTC
72nd FLOOR
SPEAKER INSTALLATION
AND REMOVAL PLAN**

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

S. FELDSTEIN B. FALDU J.M.
Designed by Drawn by Checked by

Date 2/4/97 Scale AS SHOWN
Contract Number Drawing Number
WTC-861.077 E-13

